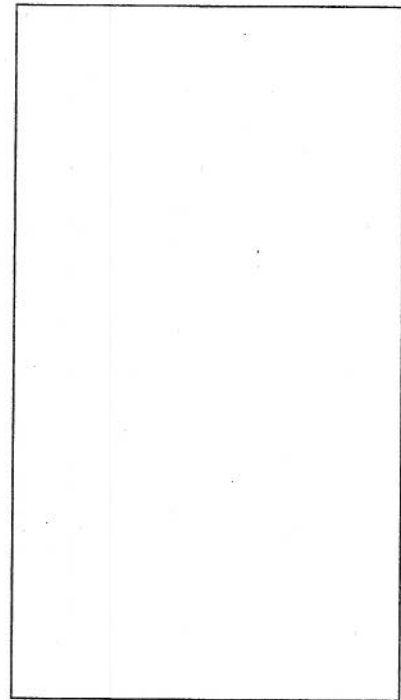
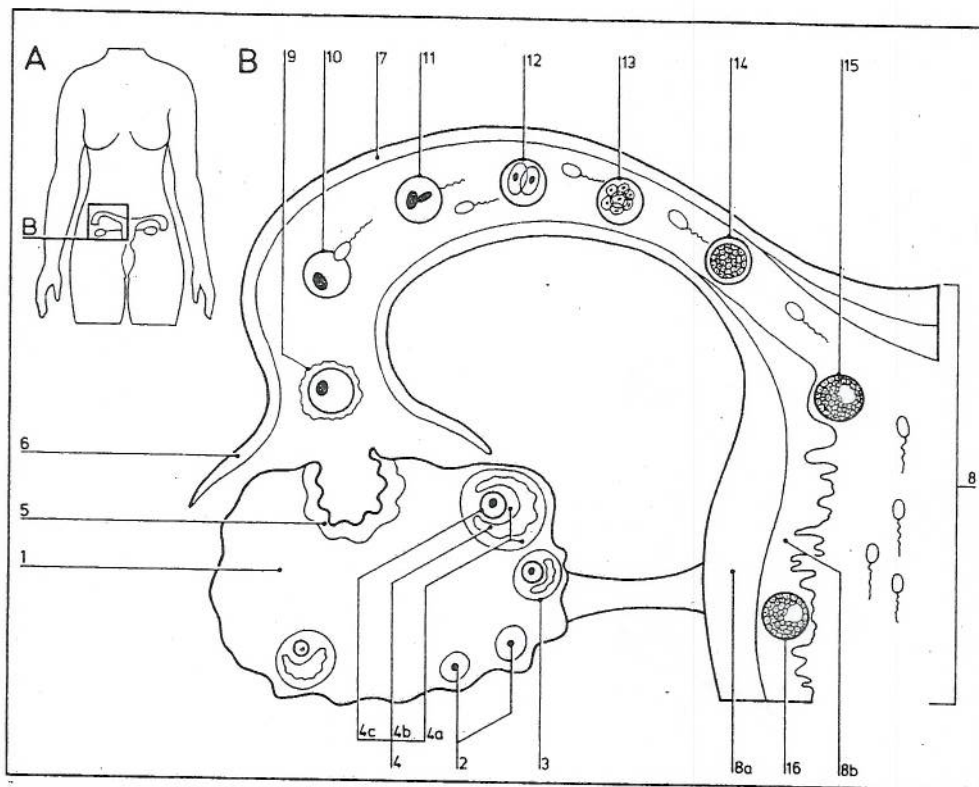
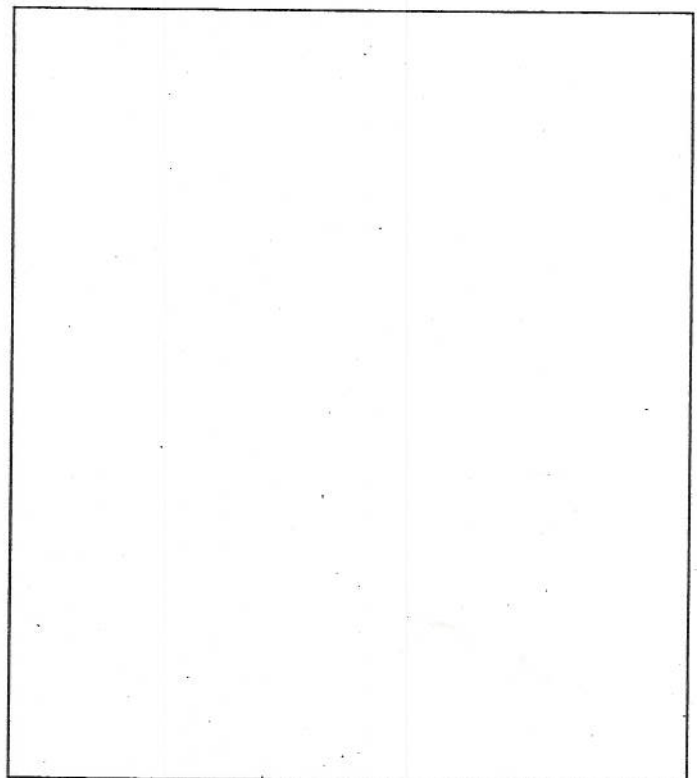
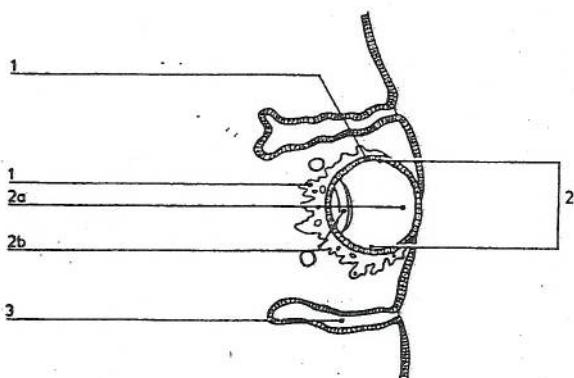


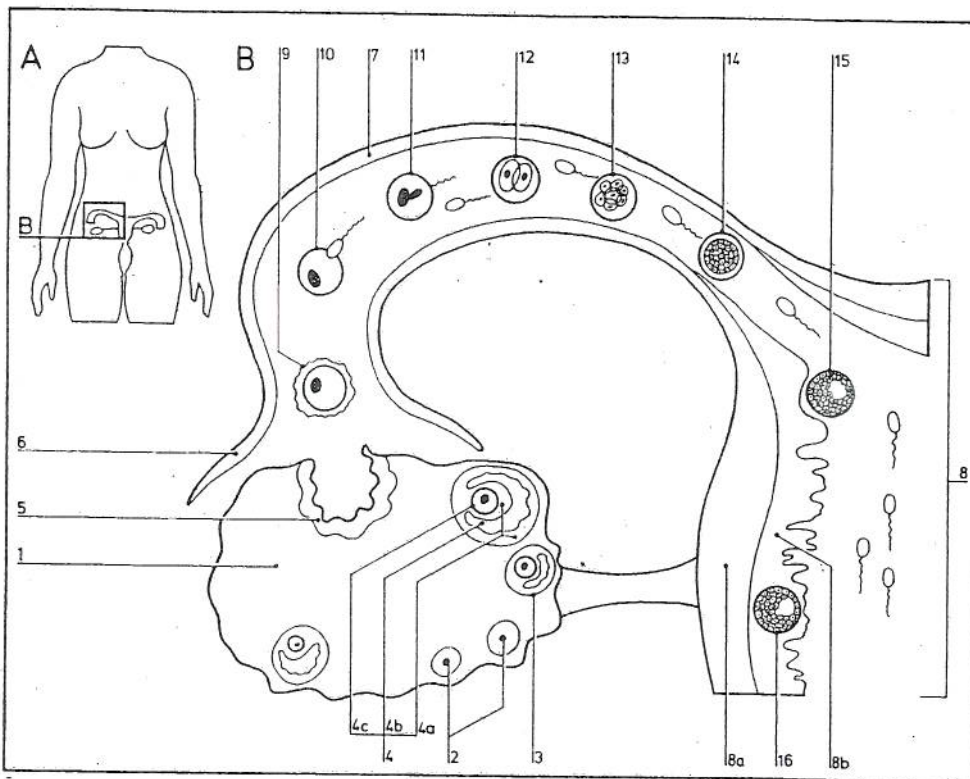
Fertilization and Implantation



Implantation of Blastocyst

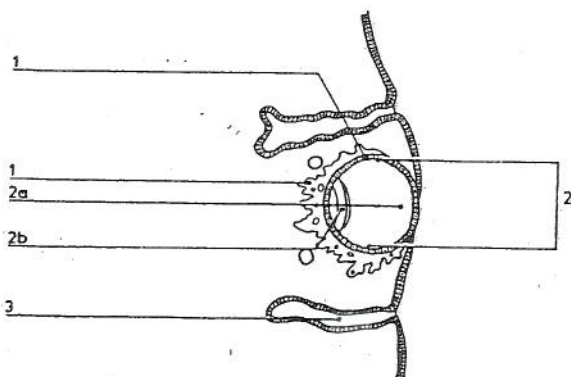


Fertilization and Implantation



1. ovary
7. fallopian tube
8. uterus
9. ovulation
10. sperm penetrates ovum
11. fertilization (zygote)
12. first division by mitosis
13. eight cell stage (morula)
14. sixty-four cell stage
15. blastocyst
16. blastocyst embedded in lining of uterus

Implantation of Blastocyst



1. trophoblast
2. blastocyst
- 2a. blastocyst cavity
- 2b. inner cell mass (stem cells)
3. uterus

Repeated division of the zygote result in a blastocyst, a sphere of cells with a large fluid-filled center. The blastocyst sinks into the uterine lining and becomes firmly embedded. During the early stages of development the new individual is called an embryo.